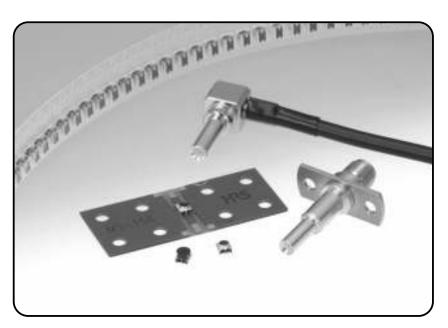
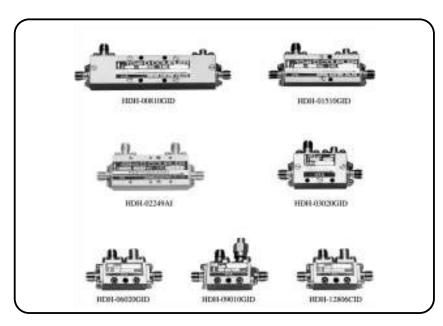
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Microwave Components





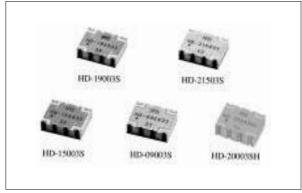
Microwave Components



| | Туре | Series Name | Page |
|---------------------------|---|--------------------------|------|
| | Ceramic couplers | HD-S | 167 |
| Directional Couplers | Couplers with connector (SMA) | HDH | 167 |
| | Card couplers | HD-M3 | 168 |
| Divider | Power dividers | C/D | 168 |
| NA: | SMD | MC-S | 169 |
| Microwave coil components | Headers | MC-R | 169 |
| Double balanced mixers | Headers | MC-600R | 170 |
| | Connector combined type (SMA) | HRM-TM | 170 |
| | Connector combined type (BNC) | BNC-TM | 171 |
| | Connector combined type (N, TNC, SSMA, POB, FL, PO6) | N,TNC,POB,FL,PO6,HRMM-TM | 171 |
| | Connector combined type (HV) | HV-TM | 172 |
| Terminations | Box type (N, BNC) | N,BNC-TM | 172 |
| | Feed through type (BNC) | MR | 173 |
| | Direct mounting type with flange | HRM-TM-SL | 173 |
| | Board mounting type | НТ | 174 |
| | With SMA | AT-100,200,300 | 174 |
| | With N, BNC or TNC connectors | AT-400,500,600 | 175 |
| | With SMH | AT-1900 | 175 |
| | With SMA or N connectors, single radiator type | AT-1000,1100 | 176 |
| Attenuators | With SMA connectors, radiator plate mounting type, 30W or 50W | AT-1200,1300 | 176 |
| | For stripline mounting (DC to 2.5GHz) | AT-2300 | 177 |
| | For stripline mounting (DC to 8GHz) | AT-900 | 177 |
| | Surface mounting type | AT-2200 | 178 |
| | Programmable attennators | P-AT | 178 |
| C15 type accessories | NF (75 ohms) | NF | 179 |
| | | MS-136 | 179 |
| | | MS-145 | 180 |
| | | MS-147 | 180 |
| Coaxial switches | For inspection of high frequency circuits | MS-156NB | 181 |
| | | MS-151 | 181 |
| | | HCS | 182 |
| Bias Tee | | НВ | 182 |
| Rotary joints | With SMA connector | HRM-RPA | 183 |
| Line stretchers | | HLS | 183 |

Subminiature ceramic couplers (SMT type)

HD-S Series



- Subminiature and lightweight design for Hirose Electric's expertise in miniaturization and matching technology.
- The high frequency characteristics feature low loss and a high degree of matching.
- Embossed tape packaging permits automatic mounting.

Applications

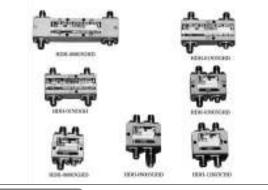
Mobile phone base stations

Specifications

| Item | Requirements |
|----------------------------------|-----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0.8 to 2.3(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | SMT |

Couplers with connectors

HDH Series



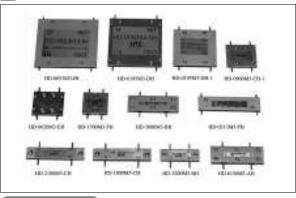
- The high frequency characteristics feature low loss, a high degree of matching, and high isolation.
- Power uniform distribution and 90 degree phase difference type(HDH-H
- Corrosion-resistant aluminum case and the Hirose Electric unique pattern design using a stripline triplate method, enables the couplers to be miniature and lightweight.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.
- Full variations of degrees of coupling over 6dB are available(HDH-I type).

Mobile phone base stations, Measurement equipment, Radio equipment

| Item | Requirements |
|---------------------------------|--------------------------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0.5 to 14.5(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Coupling: 3dB(H type) |
| | Coupling: 6,10,20,30,37,49dB(I type) |

3dB 90° card couplers

HD-M3 Series



Features

- The high frequency characteristics feature low loss, and high degree of matching.
- Power uniform distribution and 90 degree phase difference type.
- Corrosion-resistant aluminum case and the Hirose Electric unique pattern design using a stripline triplate method, enables the couplers to be miniature and lightweight.
- High-power type can be used with up to 100W.
- Tabs permit direct mounting to surface circuits.

Applications

Mobile phone base stations, Measurement equipment, Radio equipment

Specifications

| Item | Requirements |
|---------------------------------|------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0.03 to 6.4(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Strip line |
| Remarks | SMT type |

2 GHz band power dividers/combiners

C/D Series



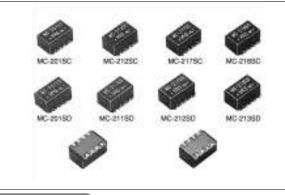
- The micro strip line method, which uses the principle of the lambda/4 impedance converter, provides excellent high frequency performance.
- The low insertion loss and high isolation (20dB or more) afforded by the Wilkinson circuit structure.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.

Cellular phone base stations, Measurement equipment, Radio equipment

| Item | Requirements |
|----------------------------------|---|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 1.7 to 2.3(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |
| Remarks | 2 way, 4way, 8way power divider, 3 way, 8 way power divider |

Coil components (SMD)

MC-S Series



- Excellent high frequency characteristics. Insertion loss: 0.6 dB (Typical), Phase balance: ±3deg (Typical).
- The exterior cladding of the cover made of PPS resin, the board material made of glass epoxy substrate, and the solder plated electrodes contribute to excellent mechanical strength, heat resistance, and soldering qualities.
- Embossed tape packaging permits automatic mounting.

(Applications)

Cellular phone base stations, Radio equipment

Specifications

| Item | Requirements |
|---------------------------------|-------------------|
| Characteristic Impedance (ohms) | 50,75 |
| Frequency Range | 0.03 to 0.37(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | SMT |

Coil components (Relay headers)

MC-R Series



- The use of coils made with a special winding method based on a lumpedconstant design provide a high degree of matching, low loss, and high
- The metal case is designed with a hermetically sealed construction which contains inert gas. This permits quality to be maintained over a long
- The pre-soldering leads give easy soldering operations.
- Use of the supplied Teflon sheet permits the prevention of solder flux creepage.

Applications

Radio equipment

| Item | Requirements |
|----------------------------------|------------------|
| Characteristic Impedance (ohms) | 50,75 |
| Frequency Range | 0.03 to 0.2(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Through hole |

Double balanced mixers (Relay headers)

MC-600R Series



Features

- Ultraminiature design with a 2.54mm pitch enables high-density mounting.
- Mixers operate at a L0 level of +7dBm.
- Highly reliable design as the metal case is designed with a hermetically sealed construction which contains inert gas.
- The leads have received solder dip processing which makes soldering work easier.
- Use of the supplied Teflon sheet permits the prevention of solder flux creepage.

(Applications)

Radio equipment

Specifications

| Itam | Doguiromento |
|---------------------------------|------------------|
| Item | Requirements |
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0.03 to 1.8(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Through hole |

Non-reflective terminations (SMA type)

HRM-TM Series



- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.

Applications

Base stations

| Item | Requirements |
|---------------------------------|-----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 26.5(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |

Non-reflective terminations (BNC type)

BNC-TM Series



Features

- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- 75 ohm type plug and jack are available.

Applications

Measurement equipment, Radio equipment

Specifications

| Item | Requirements |
|----------------------------------|--------------|
| Characteristic Impedance (ohms) | 50,75 |
| Frequency Range | DC to 3(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |

Non-reflective terminations (N, TNC, POB, FL, PO6, SSMA type) N, TNC, POB, FL, PO6, HRMM-TM Series



- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- Connector types are in addition to BNC, SMA (Hirose Electric HRM series), the world standard N, TNC, SSMA (Hirose Electric HRMM series), and our uniquely miniaturized FL series, and PO6 series.

Applications

Cellular phone base stations, Measurement equipment, Radio equipment

| Item | Requirements |
|---------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0 to 18(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |

HV connector plug terminations

HV-TM Series



Features

- Low V.S.W.R.: 1.15(Typical DC to 50GHz), 1.35(Typical 50 to 65GHz)
- Overall dimensions of only 9 mm dia. x 18.3 mm. long.
- Usable over an extremely wide bandwidth of frequencies: DC to 65 GHz.
- Will mate with corresponding V Connector which is a registered trademark of Anritsu Corporation.
- Soldering compounds are lead-free.

Applications

Optical transmission devices, Network analyzers, BERTS (Bit Error Ratio Testing Systems), FWA (Fixed Wireless Access) and measurement applications up to 65 GHz.23)

Specifications

| Item | Requirements |
|---------------------------------|-----------------------|
| | and the second second |
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 65(GHz) |
| Operating Temperature Range (℃) | -10 to +60 |
| Connection Type | Connector |

Non-reflective terminations (Box type)

N, BNC-TM Series



- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- The usable power has been increased to 30W through the use of a heat sink. (5W without heat sink)
- Connector types are N and BNC.

Applications

Radio equipment

| Item | Requirements |
|---------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0 to 1(GHz) |
| Operating Temperature Range (℃) | -10 to +60 |
| Connection Type | Connector |

Feed through non-reflective terminations **MR Series**



- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- Terminator for the measurement of 50 ohm products with a synchroscope.

Applications

Measurement equipment

Specifications

| Item | Requirements |
|---------------------------------|---------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0 to 0.5(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Connector type: BNC |

Stripline non-reflective terminations (Externally mounted)

HRM-TM-SL Series



- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- Constructed to mount externally to the housing of a microwave device.
- A type of high degree of matching (with V.S.W.R. of 1.15 max. from DC to 18GHz) and an economical type (with V.S.W.R. of 1.15 max. from DC to 8GHz, and V.S.W.R. of 1.25 or less from 8 to 12.4GHz) are available.

Applications

Dummy load for coaxial type circulators, directional couplers, hybrid dividers, and other devices.

| Item | Requirements |
|---------------------------------|----------------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0 to 18(GHz) |
| Operating Temperature Range (℃) | -30 to +65 |
| Connection Type | Strip line |
| Remarks | With flange type available |

Strip line mounting non-reflective terminations HT Series

Features

- Wideband/high impedance matching with Hirose Electric unique high frequency matching technique.
- Equipped with tabs to permit direct mounting to flat circuits.
- Housing functions as a radiator to permit small size and high-density mounting.

Applications

Cellular phone base stations, Radio equipment

Specifications

| Item | Requirements |
|---------------------------------|---------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 15(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Strip line |
| Remarks | SMT type |

Fixed attenuators (SMA type)

AT-100, 200, 300 Series



Features

- Attenuation amounts are available in abundant variations from 0 to 4dB in 0.5dB steps, and in 12, 13, 15, and 20dB.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.
- The coupling portions are available in SMA type (HRM series) plug-jack.
- The design of the attenuation element uses a distributed constant circuit and metal film resistor and a high degree of matching is achieved.
- Stable characteristics for environments of varying temperature, humidity, and gases.

Applications

Measurement equipment, Radio equipment

| Item | Requirements |
|---------------------------------|---------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 18(GHz) |
| Operating Temperature Range (℃) | -10 to +60 |
| Connection Type | Connector |

Fixed attenuators (N, BNC, TNC)

AT-400, 500, 600 Series



Features

- The coupling portions are available in N type plug-jack.
- Small size and economical.
- Stable characteristics for environments of varying temperature, humidity, and gases.

Applications

Radio equipment

Specifications

| Item | Requirements |
|----------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 4(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |

Fixed attenuators-2W power (SMA type)

AT-1900 Series



- Use of alumina for the attenuation element assures light weight and is cost
- Several configurations of SMA plug/jack couplings are available in stainless steel, assuring durability.
- Proven and stable performance characteristic under varying temperature, humidity and adverse environmental conditions.

Applications

Measurement equipment, Radio equipment

| Item | Requirements |
|----------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 8(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |

High power fixed attenuators (Radiator built-in)

AT-1000, 1100 Series



Features

- Beryllia is used for the material of the resistance element to enable the attenuator to be of small size and low cost.
- The coupling portions are available in SMA type (HRM series) plug-jack.
- Stable characteristics for environments of varying temperature, humidity, and gases.

Applications

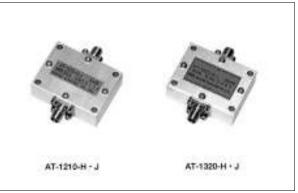
Radio equipment

Specifications

| Item | Requirements |
|---------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 8(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |

High power fixed attenuators (Heat sink mounting type)

AT-1200, 1300 Series



Features

- Beryllia is used for the material of the resistance element to enable the attenuator to be of small size and low cost.
- Mounting these attenuators to a radiator plate permits to be used at up to 30W.
- Stable characteristics for environments of varying temperature, humidity, and gases.

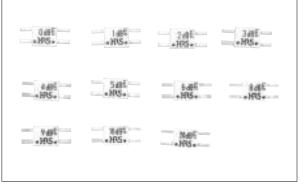
Applications

Radio base station

| Item | Requirements |
|---------------------------------|---------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 1(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Connector type: SMA |

Stripline mounting fixed attenuators

AT-2300 Series



Features

- Attenuation amounts are available 11 types of variation from 0 to 6dB and 8 to 10dB in 1dB steps, and in 20dB.
- PCB mounting pattern is compatible with AT-800 series.

(Applications)

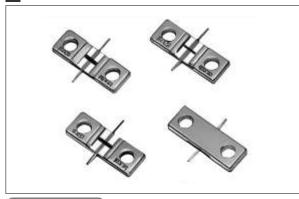
Measurement equipment, Radio equipment

Specifications

| Item | Requirements |
|----------------------------------|----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 2.5(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Strip line |
| Remarks | SMT type |

Stripline mounting fixed attenuators

AT-900 Series



- Although these attenuators are of the surface mount type, they offer superior high frequency characteristics from DC to 8GHz.
- Attenuation amounts are available in 11 types from 0 to 10dB in 1dB steps.
- Products are available to complement a wide variety of mounting styles including screw mount types, solder mount types, and a type of the gold plated center electrode for wire mounting.

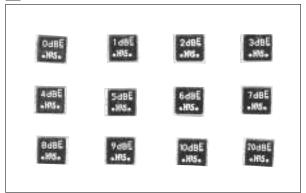
Applications

Radio equipment

| Item | Requirements |
|---------------------------------|--------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 8(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Strip line |
| Remarks | SMT type |

Stripline mounting fixed attenuators (SMT type)

AT-2200 Series



Features

- Small size and lightweight with dimensions of 4 x 3.6mm and weight of
- Attenuation amounts are available 12 types of variation from 0 to 10dB in 1 dB steps, and in 20dB.
- Embossed tape packaging permits automatic mounting.
- PCB mounting pattern is compatible with AT-1400 series.

Applications

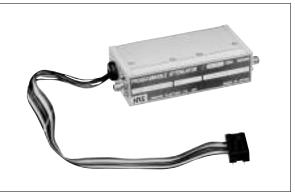
Measurement equipment, Radio equipment

Specifications

| Item | Requirements |
|---------------------------------|----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 2.5(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Strip line |
| Remarks | SMT type |

Programmable attennators

P-AT Series



- Used from DC to 26.5GHz.
- The drive current will automatically switch off after setting the attenuation.
- In the event of sudden shock the attenuation will quickly return to the preset level.

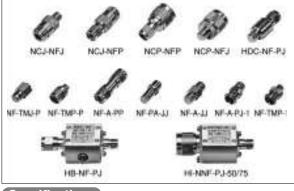
Applications

Measurement equipment, Radio equipment

| Item | Requirements |
|---------------------------------|--|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 0.55(GHz) |
| Operating Temperature Range (℃) | -10 to +50 |
| Connection Type | Connector |
| Remarks | Connector type: K(Registed brand) (HE) |

C15 type accessories

NF-A Series



Features

- The non-reflective terminators exhibit a high degree of matching of V.S.W.R. 1.12 or less for all products.
- The push-on plug type of connector to ensure easy connection and disconnection is available for the F type of non-reflective terminator and inline adapter.

(Applications)

Satellite broadcast receivers, Test equipment

Specifications

| Item | Requirements |
|----------------------------------|------------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 2(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Connector type: F type |

Coaxial switches

MS-136 Series



- The high-frequency signals can be simply switched by coupling or
- Small and lightweight with a height of 3.6mm, length of 11.5mm, width of 4.6mm, and weight of 0.5g.
- Embossed tape packaging permits automatic mounting.

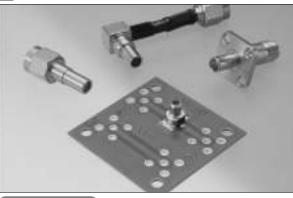
Applications

Mobile Phone, Mobile wireless equipment

| Item | Requirements |
|---------------------------------|----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 3(GHz) |
| Operating Temperature Range (℃) | -30 to +85 |
| Connection Type | Connector, SMT |

Interface coaxial switches

MS-145 Series



Features

- Small and lightweight with a board mounting area of 7 x 4.6mm, height of 6mm, and weight of 0.18g.
- High durability (mating and unmating) of 10,000 cycles.
- Embossed tape packaging permits automatic mounting.
- Structure to prevent flux float-off.
- Inducement to floating is ± 0.5 mm.

Applications

Mobile phone antenna switching, Microwave boards checking

Specifications

| Item | Requirements |
|---------------------------------|----------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | 0 to 2.5(GHz) |
| Operating Temperature Range (℃) | -30 to +65 |
| Connection Type | Connector, SMT |

Ultra-small coaxial switches

MS-147 Series



- Low insertion loss: 0.15dB(or less) (Typically, 0.08dB at 1GHz) (DC 2GHz)(Typically, 0.1dB at 2GHz).
- Small and lightweight with an outer dimension of 5.8mm x 5.4mm, height of 3.9mm, and weight of 0.11g.
- Guaranteed 12,000 insertion/removal cycles.
- Structure to prevent flux float-off.
- ullet The eccentricity for plug mating is ± 0.5 mm.

Applications

Wireless LAN, Bluetooth, Mobile Phones, Notebook PCs, ETC units, POS terminals, GPS units, PDA units

| Item | Requirements |
|----------------------------------|--|
| Frequency Range | DC to 6(GHz) |
| Operating Temperature Range (°C) | -30 to +85(MS-147(06)),-10 to +65(MS-147-HRMJ-1) |
| Connection Type | Connector, SMT |

Subminiature coaxial switch 1.6mm high, DC TO 6 GHz **MS-156NB Series**



- Lightweight and space-saving design with a board mounting area of 2.7mm x 2.7mm, height of 1.6mm, and weight of 0.025g.
- Insertion losses at unmated condition are 0.1dB typical at 6GHz.
- Mating/unmating cycles with corresponding plug is 100 times, enough durability for checking high frequency circuits.
- Embossed tape packaging permits automatic mounting.
- Supports lead-free environments.

Applications

Wireless LAN, Bluetooth, Portable terminals, Notebook PCs, ETC units, POS terminals, GPS units, PDA units

Specifications

| Item | Requirements |
|----------------------------------|----------------|
| Contact Plating | Gold |
| Frequency Range | DC to 6(GHz) |
| Operating Temperature Range (°C) | -40 to +85 |
| Connection Type | Connector, SMT |

Interface RF connectors with switch

MS-151 Series



- Built-in interlock feature confirms fully mated condition.
- The connector can be mated in any position on a 360° axis and can rotate within the same when in use.
- Guaranteed 5,000 insertion/removal cycles.
- The external dimensions of the space-saving board-mounted receptacle is 5.0 mm high, 6.5 mm wide, and 7.0 mm deep.
- Embossed tape packaging permits automatic mounting.

Applications

GPS terminals, Wireless LAN modules, Notebook PCs, PDA terminals, Equipment related to high frequency

| Item | Requirements |
|----------------------------------|----------------|
| Contact Plating | Gold |
| Frequency Range | DC to 3(GHz) |
| Operating Temperature Range (°C) | -40 to +85 |
| Connection Type | Connector, SMT |

RF coaxial switches

HCS Series



Features

- SPDT fail-safe type and exhibit excellent power saving characteristics and vibration resistance.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.
- Small and light with a height of 20.5mm, length of 43.0mm, width of 20.0mm, and weight of 37g.

Applications

Radio equipment

Specifications

| Item | Requirements |
|----------------------------------|---------------------|
| Characteristic Impedance (ohms) | 50 |
| Frequency Range | DC to 15(GHz) |
| Operating Temperature Range (°C) | 0 to +50 |
| Connection Type | Connector |
| Remarks | Connector type: SMA |

Bias tee

HB Series



- Without affecting the high frequency characteristics, these bias tee can supply a DC bias (of 50V, 2.5A max.) to the item being measured.
- SPDT fail-safe type.
- Ensure a wide bandwidth and high performance. There is a low insertion loss of 0.3dB or less.
- The outer shell and conductor of the SMA connector (Hirose HRM series) is stainless steel for durable coupling.

Applications

Radio equipment

| Item | Requirements |
|---------------------------------|-----------------|
| Frequency Range | 0.5 to 1.8(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |

Rotary joints HRM-RPA Series



Features

- These non-contact rotary joints have a long life of 1000 hours or greater (at 500 r.p.m.).
- Extremely low loss and a high degree of matching.V.S.W.R. 1.25 or less (HRM-RPA-JJ-3 1.5-1.7GHz)HRM-RPA-JJ-3
- Rotation at low torque of 50g·cm permits high speed rotation.

(Applications)

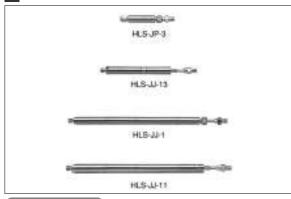
Radio equipment

Specifications

| Item | Requirements |
|----------------------------------|---------------------|
| Frequency Range | 1.5 to 12.4(GHz) |
| Operating Temperature Range (°C) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Connector type: SMA |

Coaxial line stretchers

HLS Series



- Maintains an impedance of 50 ohm while changing the length of the coaxial tube and adjusting the phase.
- One type is locked after the adjustment and another type can be used in mechanical drive applications.
- Used for phase adjustment, impedance matching, and signal combining.
- Adjustable lengths are available in these three types: 10mm, 37.5mm, and
- Stainless steel is used for the connector portion and the gold plating high reliability.

Applications

Measurement equipment, Radio equipment

| Item | Requirements |
|---------------------------------|---------------------|
| Frequency Range | DC to 10(GHz) |
| Operating Temperature Range (℃) | -10 to +65 |
| Connection Type | Connector |
| Remarks | Connector type: SMA |